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APPLICATION NO. FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/047,115 01/14/2002	Mark W. Kroll	A02P1004	9041	
7590 06/24/2004		EXAM	INER	
PACESETTER, INC. 15900 Valley View Court		MANUEL, GEORGE C		
Sylmar, CA 91392-9221		ART UNIT	PAPER NUMBER	
•		3762		

DATE MAILED: 06/24/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

			ΑC
	Application No.	Applicant(s)	19
	10/047,115	KROLL, MARK W.	/
Office Action Summary	Examiner	Art Unit	
	George Manuel	3762	_
The MAILING DATE of this communication appearing for Reply	opears on the cover sheet with the	correspondence address	
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION  - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a re  - If NO period for reply is specified above, the maximum statutory perio Failure to reply within the set or extended period for reply will, by statu.  Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	.136(a). In no event, however, may a reply be to ply within the statutory minimum of thirty (30) da d will apply and will expire SIX (6) MONTHS fror tte, cause the application to become ABANDON	mely filed ys will be considered timely. n the mailing date of this communication. ED (35 U.S.C. § 133).	
Status		•	
1) Responsive to communication(s) filed on			
	is action is non-final.		
3) Since this application is in condition for allow closed in accordance with the practice under	ance except for formal matters, pr		
Disposition of Claims			
4)⊠ Claim(s) <u>1-73</u> is/are pending in the application 4a) Of the above claim(s) is/are withdrest 5)□ Claim(s) is/are allowed.  6)⊠ Claim(s) <u>1-15,18,21,24,27-63 and 65-69</u> is/a  7)⊠ Claim(s) <u>16,17,19,20,22,23,25,26,64 and 70</u> .  8)□ Claim(s) are subject to restriction and	awn from consideration. re rejected73 is/are objected to.	•	
Application Papers		•	
9)☐ The specification is objected to by the Examir	ner.		
10)☐ The drawing(s) filed on is/are: a)☐ ac	ccepted or b) objected to by the	Examiner.	
Applicant may not request that any objection to th	<del>-</del> · · · · · · · · · · · · · · · · · · ·	, ,	
Replacement drawing sheet(s) including the corre			
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documents.  2. Certified copies of the priority documents.  3. Copies of the certified copies of the priority documents.  * See the attached detailed Office action for a list	nts have been received. nts have been received in Applica ority documents have been receiv au (PCT Rule 17.2(a)).	tion No red in this National Stage	
Attachment(s)	s of the certified copies flot receiv	· ·	
Notice of References Cited (PTO-892)	4) 🔲 Interview Summar		
<ul> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 1/14/02.</li> </ul>	Paper No(s)/Mail D		

Application/Control Number: 10/047,115

Art Unit: 3762

## **DETAILED ACTION**

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## Claim Rejections - 35 USC § 112

Claims 5, 6 and 41 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claims 5 and 6, the intracardiac electrogram signal lacks antecedent basis.

Regarding claim 41, the switch lacks antecedent basis.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

Application/Control Number: 10/047,115

Art Unit: 3762

Claims 1-5, 7-14, 27-31, 33, 34, 40-46, 48, 49, 58-61, 63 and 65-68 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Collins '326.

Collins discloses detecting myocardial ischemia based on the ST-segment in the electrogram signal wherein, if the ST-segment is abnormal, the microprocessor may use the total duration of deviation persistence as an index of ischemia. Further, Atrial Sensing 25 and Ventricular Sensing 35 provide means for determining a sensor indicated heart rate and Atrial Pacing 24 and Ventricular Pacing 34 provide pacing at the sensor indicated heart rate.

Claims 1, 15, 18, 21, 24, 27-39, 44-46, 48-61, 63 and 65-69 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Alferness '768.

Alferness discloses ischemia data includes ST segment deviation data and MUX 64 provides a "switch" for connecting sensing leads 34 and 36.

Claims 1, 6, 27, 32, 44, 47, 58 and 62 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by Stadler et al '493.

Stadler et al disclose in FIG. 1D is using defibrillation electrodes and the cardiodefibrilation housing for the electrode array. Further, Stadler et al are replete with discussion related to detecting myocardial ischemia based on a change in the electrogram, see for example, in step S236, each ischemia parameter is compared to an ST ischemia parameter threshold previously programmed into a register in step S235.

## Allowable Subject Matter

Claims 16, 17, 19, 20, 22, 23, 25, 26, 64 and 70-73 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten

Application/Control Number: 10/047,115

Art Unit: 3762

in independent form including all of the limitations of the base claim and any intervening claims.

## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to George Manuel whose telephone number is (703) 308-2118.

George Manuel Timary Examiner Art Unit: 3762

Page 4

6/21/04